

# **OIL ANALYSIS REPORT**

Machine Id **414066** 

Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- GAL)

# Sample Rating Trend



# DIAGNOSIS

# Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

# Contamination

There is no indication of any contamination in the

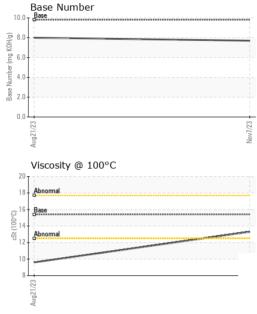
# **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)			Aug2023	Nov2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0078622	GFL0078650	
Sample Date		Client Info		07 Nov 2023	21 Aug 2023	
Machine Age	hrs	Client Info		1076	512	
Oil Age	hrs	Client Info		600	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0	0.5	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	15	31	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	2	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	1	1	
Aluminum	ppm	ASTM D5185m	>25	8	25	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	291	137	
Tin	ppm	ASTM D5185m	>15	1	3	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	12	262	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	66	123	
Manganese	ppm	ASTM D5185m	0	1	6	
Magnesium	ppm	ASTM D5185m	1010	950	735	
Calcium	ppm	ASTM D5185m	1070	1071	1472	
Phosphorus	ppm	ASTM D5185m	1150	947	694	
Zinc	ppm	ASTM D5185m	1270	1199	843	
Sulfur	ppm	ASTM D5185m	2060	2651	2871	
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12	<b>▲</b> 77	
Sodium	ppm	ASTM D5185m		3	6	
Potassium	ppm	ASTM D5185m	>20	16	59	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	7.8	8.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	24.3	
FLUID DEGRA	ADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	21.8	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	8.0	



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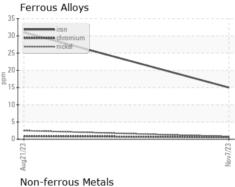


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPEI	RTIES	method	limit/base	current	history1	history2

13.3

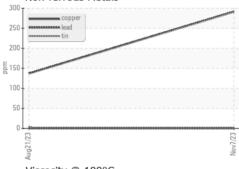
**9.6** 

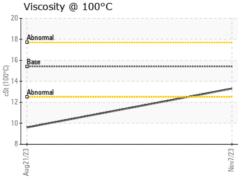
Visc @	100°C
GRA	PHS

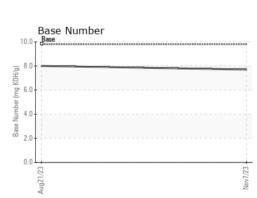


cSt

ASTM D445 15.4









Laboratory Sample No. Lab Number Unique Number : 10752892 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06013748

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: GFL0078622

Received Diagnosed

: 21 Nov 2023 : 23 Nov 2023 Diagnostician : Don Baldridge GFL Environmental - 152 - Jacksonville 7580 PHILIPS HWY

Jacksonville, FL US 32256 Contact: Chris Smith

chris.smith@gflenv.com T: (904)252-0013

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)